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REGION 2  
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NOV 14 2012

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Article Number: 7005 3110 0000 5952 7979

Mayor Nancy A. Grbelja  
Township of Millstone  
470 Stage Coach Road  
Millstone Township, NJ 08510

Honorable Mayor Grbelja:

Re: MS4 Inspection-Township of Millstone, NJ  
NJPDES Permit No. NJG0153532

Honorable Grbelja:

This letter is in reference to the United States Environmental Protection Agency's ("USEPA") Region 2's MS4 Compliance Evaluation Inspection ("CEI") conducted at the subject facility on July 12, 19-20, 2012. The inspection was performed to determine the facility's compliance with New Jersey's Tier A Municipal Stormwater General Permit.

As was documented during our inspection, there is a severe scouring/erosion issue that will need to be addressed. Within thirty (30) calendar days of receipt of this letter, please respond to the USEPA in writing with the actions you have taken or will take to address the Potential Non-Compliance/Area(s) of Concern identified in the enclosed inspection report.

We want to express our sincere thanks to both Jeff Hawk and Daniel Specht for their assistance provided during our MS4 field inspection.

Should you have any questions feel free to contact Messrs. Jerry Ciotola, at (212) 637-4323 or Robert Ferri at (212) 637-4227.

Sincerely yours,

Mr. Douglas Mckenna, Chief  
Water Compliance Branch

Enclosure

cc: Richard Ambrosio, Central Region Field Office  
Bureau of Solid Waste C&E, NJDEP  
Marcedius Jameson, NJDEP

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**MS4 Inspection Report/Township of Millstone, NJ (NJG0153532)**  
**July 12, 2012, October 1-3, 2012**

**Township of Millstone**  
**470 Stagecoach Road**  
**Millstone Township, NJ 08510**  
**732-446-4249**

**Background**

The Township of Millstone is located in the southwestern part of Monmouth County, New Jersey with a population of 10,500 based on the 2010 census. Millstone is bordered on the north by SR 33, on the east by County Road 537 and Freehold Township. Interstate 195 cuts across its southern border, and on the west by portions of Allentown and Upper Freehold.

Millstone encompasses 37 sq. mi. The Township is primarily a rural residential and farming community. There are some strip malls, and light commercial businesses, generally along the route 33 and I-195 corridor.

**Introduction**

Millstone stormwater flows to five (5) major watersheds, Crosswicks Creek, Barnegat Bay, Central Delaware Tributaries, Lower Raritan, South River and Lawrence, and the Millstone River. The New Jersey State Department of Environmental Protection identifies the Millstone and Toms River on its water quality related 303(d) list (Individual Waterbodies with Impaired Segments) as a water-body with pollution. The Township separate stormwater conveyance system, maintained by the Public Works Department, consists of storm water outfalls, detention basins, infiltrating permanent ponds, catch basins, and interconnecting pipes.

The Village's Storm Water Management Plan was prepared by Leon S. Avakian, Inc. Consulting Engineers (rev. dated June 1, 2009). According to the most recent Annual Report and Certification Filing to NJDEP, ending Dec 31, 2011, the Township has a total of 301 storm water outfalls; draining to the Millstone, Crosswicks Creek, Central Delaware tributaries, Lower Raritan, and Barnegat Bay.

**Inspection**

On July 12, 2012, a briefing meeting was held with Town officials that included Thomas E. Antus, Township Administrator, Jason Borsuk and Jeff Hawk from Public Works, Daniel Specht, and Leon Avakian, Consulting Engineers. The meeting was held at the Millstone Municipal Building at 470 Stage Coach Road, followed by an inspection of the Municipal Garage, Public Works Department operations, and the salt storage facility. During the meeting we had the opportunity to discuss general requirements of the MS4

permit and focus on the Illicit Discharge Detection and Elimination (IDDE) and SWMP development and implementation.

Messrs. Peter Avakian and Daniel Specht gave a brief overview of Millstone's storm water system and watersheds, and provided detailed mapping information in both hard copy and electronic format. Pertinent layers for the Storm Water Infrastructure Maps used software called ArcGIS Explorer. All of Millstone's stormwater outfalls were GPS field verified and field inspected in April 2009. The county website has GIS data layers of the Village's infrastructure.

Weather Conditions: Weather for the July 12, 2012 inspection of the Town DPW facility and sand/salt storage shed was sunny, dry and mild. The refueling system was installed in 2007 with above ground storage capacity of 2,000 gallons gasoline/4,000 gallons diesel. No vehicle maintenance or storage is done within the Town. The salt storage building consisted of calcium chloride mixed with sand for winter road de-icing.

On October 1-3, 2012 an inspection of all Millstone's outfalls, catch basins, and detention basins was conducted by EPA inspectors accompanied by Daniel Specht and Tim Bora. The purpose of EPA's NPDES MS4 inspection was to identify potential sources of pathogens and illicit discharges that might impact water quality in the area to surface waters of the state. The EPA inspection teams consisted of Jerry Ciotola and Chris Mecozzi (day 1 only) of EPA Region 2, along with Dan Specht. Team 2 comprised Luis Rodriguez, Robert Ferri and Tim Bora. Due to time constraints, approximately three quarters of the 300 outfalls were inspected within the Township's jurisdiction.

#### **Recommendations (Areas of Concern)**

As part of the Statewide Basic Requirements under part 7e. of Tier A of the MS4 permit, the permittee is required to have in place a program to address outfall pipe scouring remediation and severe erosion. We observed a 30" storm water outfall (Lower Raritan tributaries #2164), located off of Saw Mill Pond Road, which exhibited severe stream bank scouring downstream of the pipe, along with excess stream bank erosion. Flows from this outfall must be attenuated and the erosion control measures implemented to mitigate maintenance of the conveyance channel.

Outfalls at 7 Running Brook Road and BB 20.02-6 need attention and the site at 517 Ely Harmony Road should be looked at by the town code enforcement officer for questionable construction activities. Ten outfalls that were inspected were not found on the town spreadsheet of outfalls. ✓

The 24" concrete outfall at #9 Joan Street contained some sediment with signs of white staining, and should be further investigated.

**Outfalls Inspected by EPA (October 1-3, 2012)**

See attached spreadsheets

Municipality: Millstone, NJ

Date and Weather

Inspectors:

Robert Ferri, Luis Rodriguez, Jerry Ciotola

Outfall Id

Observations

ID #, Street, cross streets, GPS coordinates

**Monday, Oct. 1, 2012**

	Pipe Size	Pipe Material	Water	Sediment	Flow Volume	Floatables	Staining	Notes	Town Data
Red Valley road	?	?						Could not locate	
55 Red valley road	15"	Corrugated metal	dry			yes		culvert under roadway, 2 pipes	
21 Red valley road	30"	?	murky					football area	
								second pond had lily pads and beaver dam, adjacent to outfall	
Red Valley Road	18'	?						culvert from farmer's field	
Old Noah Hunt & Yellow meeting house	?	?						catch basin to manhole. Could not access.	
Old Noah Hunt	?	?					Yes	too steep for access.	
17 Old Noah Hunt road	?	>?						Overgrown	
								crossweeks creek watershed, MS 10 Bridge	
Dr.'s Creek on Old Noah Hunt Road	18"	concrete	murky					leads to two detention basins prior to outfall	
Bruere Drive	15"	concrete		some					
Old Noah Hunt Road	15"	Corrugated metal		some				Two catch basins past Bruere Drive	
Old Noah Hunt road	24"	concrete			slight			dead trees block access	
#42 Old Noah Hunt road	18"	concrete				yes		discharged to stone lined trench	
Opposite #42 Old Noah Hunt Rd.	18"				half				
#8 Joad Drive	18"	?	clear		some		iron		
#9 Joan Drive	24"	concrete		some			white	abundant life, frogs etc.	
Bridge on Old Noah hunt road	?	?	clear					Ivanhoe Brook, cross weeks creek water shed, could not observe outfall	
#13 Pine Drive	15"	plastic	clear						
Off Pine Drive	30"	?							
Novad Court	24"	clear						dumping in woods	
Novad Court	18"	plastic						discharges to lined pond with aerator near drafting point	
#11 Paterson	24"	concrete		some					
Can's Tavern Road	18"	concrete	dry	some					
31 Cheryl Lane	36"	concrete					iron		
40 Cheryl Lane	48"	concrete					iron	wildlife observed	

**Tuesday October 2, 2012**

CDT-14-14	36"	concrete		some				FES OUTFALL, FID 1123	
CDT- 14-15, AGRESS AND ALPINE	12"	concrete	dry					FES OUTFALL FID 1124	
								two openings, culvert 24" pipe in poor shape, wire exposed	
CDT-14-16, 69 AGRESS RD.	24"	concrete							not on list
*** 7 Running Brook	24"	concrete		some				water eutrophic, sediment laden, some grass, maybe pool discharge	
Running Brook Drive Baird Road	18"	concrete	dry	some				Leaves covering pipe	

CDT-13-17	18"	concrete			found car battery removed during inspection by DPW	
CDT-13-16	18"	concrete	some		scouring made channel	FID 1727
CDT-13-15	40"	concrete	some		1/2 full of sediment	Headwall 1703
CDT-13-14	24"	concrete			iron	FID 1039
CDT-13-13	24"	concrete			iron	FID 1040
CDT-13-12	24"	concrete			fenced detention basin pond with wildlife, good shape.	fid 1918
CDT-13-8	?	concrete	some		water was clear	fid 1916
CDT-13-9	?	concrete	some		1/3 full of water	1737
CDT-13-10	18"	concrete			PVC pipe 6" lead to catch bason, some road degradation	headwall, 1734
CDT-13-3	18"	concrete	trickle		roof leader discharge?	FID 1116
CDT-13-4	12"	concrete			OK	fid 545
CDT-13-5	12"	concrete	stagnant		Culvert across road	FID 532
CDT-13-6	24"	plastic	trickle		not buried	FID 537
CDT-13-2	30"	concrete	1/4 water		frogs, somewhat broken up pavement,	FID 1774
16 Jacob	24"	concrete			organic breakdown smell	
Betsie	24"	concrete	1/4 sediment		dead deer	
MR-8-1	15"	concrete			scouring downstream of stone apron. Basin is descent shape	
MR-6-20	48"	concrete	clear	moving	culvert; fairly new	
MR-6-13	15"	concrete	clear		outfall from a retention pond with forebay. Abundant wildlife.	
MR-6-12	15"	concrete			could not see structure from vines	
MR-6-14	15"	concrete		yes		
MR-6-15	15"	concrete	trickle		iron	
MR-6-16	18"	concrete				FID 1445
MR-6-17	15"	concrete	some		gravel from adjacent landscaping	FID 1446
MR-15-03	18"	corrugated metal	clear		overgrown	FID 2602
MR-15-02	?	?			So overgrown could not locate	FID 2580
MR-15-5	24"	concrete				FID 2162
MR-15-6	18"	plastic				FID 2077
MR-15-7	24"	concrete	some	some	asphalt breaking up	FID 2078
MR-15-11	60"	concrete			iron	FID 2417
MR-15-12	18"	concrete	some			FID 2430
MR-15-13	48"	concrete				FID 2424
MR-15-14	24"0	concrete			saw devils walking stick	FID 2428
MR-15-7	18"	concrete			not on list	
Stevenson and Holdman Place	24"	concrete			detention pond in good shape	
BB 20.02-4, 12 Stony Brooke	15"	concrete				FID 2245
BB-20.02-3	48"	?			heavily overgrown, could hear water running	
BB-20.02-5	?	Corrugated metal	clear		fish, concrete headwall	FID 1677
***BB-20.02-6	24"	concrete	1/3 water	some	Needs to be dug out	FID 2236
5 Lewis Street	30"	concrete				
BB-20.01-8	24"	concrete			private drive discharges to two 10" pvc pipes, catch basin cover covered with leaves.	
BB-20.01-6	24"	concrete			near home made dam	FID 700
BB-20.01-9	36"	concrete			metal fence on outlet	FID 711
BB-20.02-1	24"	concrete	some			FID 2196
BB-20.02-9	30"	concrete	clear	some	leaves covering catch basin	FID 2199

BB-20.02-8	?	concrete		obscured by vegetation	FID 2221
BB-2.02-7	36'	concrete		Some erosion	FID 2219
				sandbag slope control, bare soil, logs supporting soil bank may cause neighbor to flood, road with road millings to be removed.	
*** 517 Ely Harmony Road	24'	Corrugated metal	some		
CWC-14-1, 353 Millstone road	15'	?	some	needs some clean up	not on list
CWC-14-2	18'	Concrete		Catchbasin clogged with leaves and nuts	FID 452
MR-11-1	?	concrete	some	retention pond, fend with grate on top.	FID 1608
MR-11-2	?	concrete		Good shape	FID 1033
MR-11-3	24'	concrete		6" pipe in concrete swale	FID 1580
MR-11-4, #8 Horseshoe Drive	24'	concrete	some		FID 1583
MR-14-13	30'	concrete		Empties into small pool then leads to stream	not on list
MR-14-12	30'	concrete		Empties into small pool then leads to stream	not on list
MR-14-11	24'	concrete			FID 1588
MR-14-9	24'	?		overgrown could not locate	
MR-14-10	?	concrete		culvert under road, gabblons to reduce flow	FID 2012
MR-4-E	24"	concrete		3 outfalls with concrete swales connecting them in the center of a detention basin. Outfalls are screened.	
MR-4-3	24"	concrete	some	culvert, some scouring	FID 452

